

E14

Service Manual

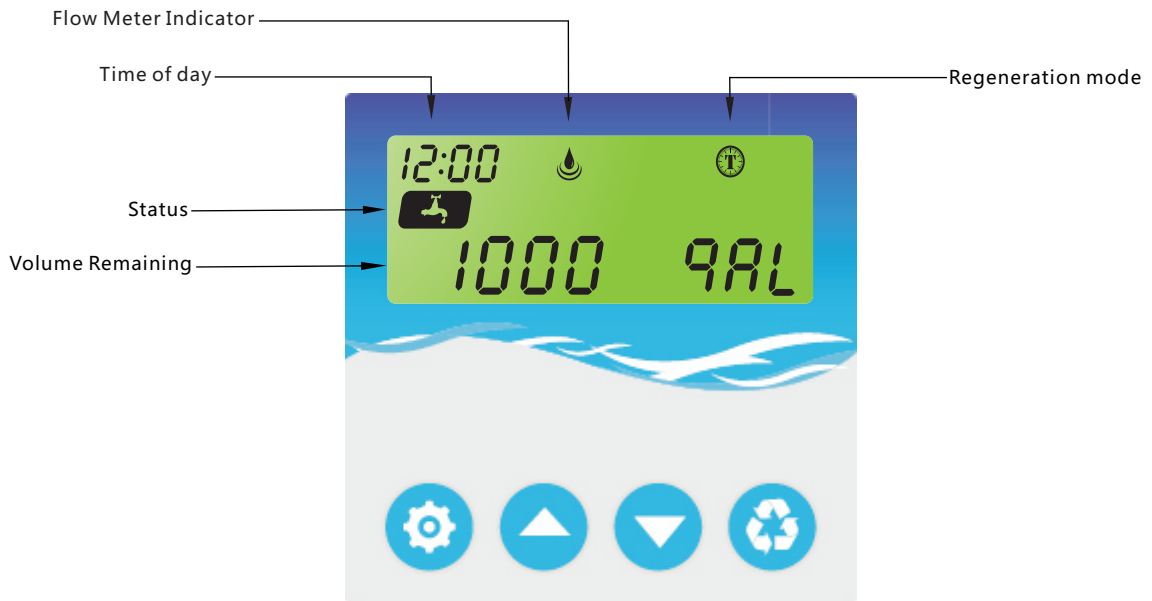


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Key Pad



Setting Button



1. Enter into setting menu
2. Confirm the current setting, and enter into the next step.
3. When used simultaneously with up button, will enter into master programming.

Up Button



1. Adjust current settings (increase)
2. Go to the last step

Down Button



1. Adjust current setting (decrease)
2. Go to the next step

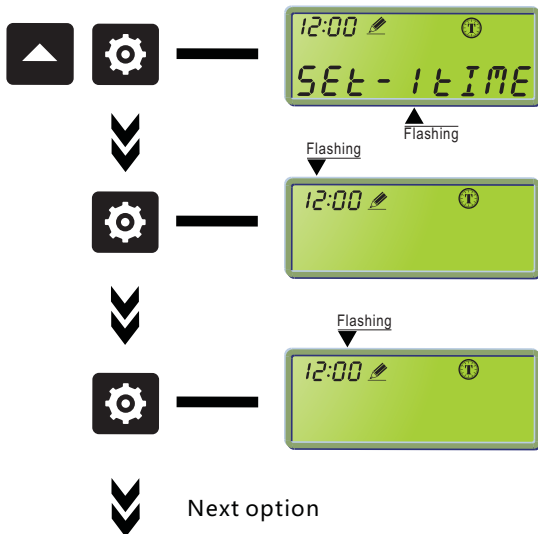
Cycle Button



1. Save the setting and return to service interface.
2. Enter into queued regeneration mode.
3. A long press for 5-6 seconds, initiate a immediate regenerate.
4. Terminate the current regeneration step and goes to the next step.

Master Programming

Setting the time of day



The first step, Setting the time of day

Default setting 12:00 (24hours)

Press setting button and up button simultaneously enter into programming mode

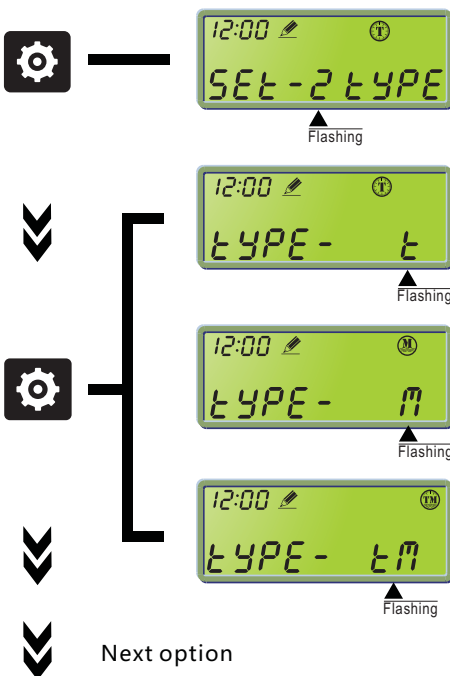
Set the hour

Press up or down button to change

Set the minute

Press up or down button to change

Setting the regeneration mode



The second step,

Setting the regeneration mode

Default setting is "Timer"

Timer

※ In this mode, will not show water capacity options

Meter imm.

Meter Delay

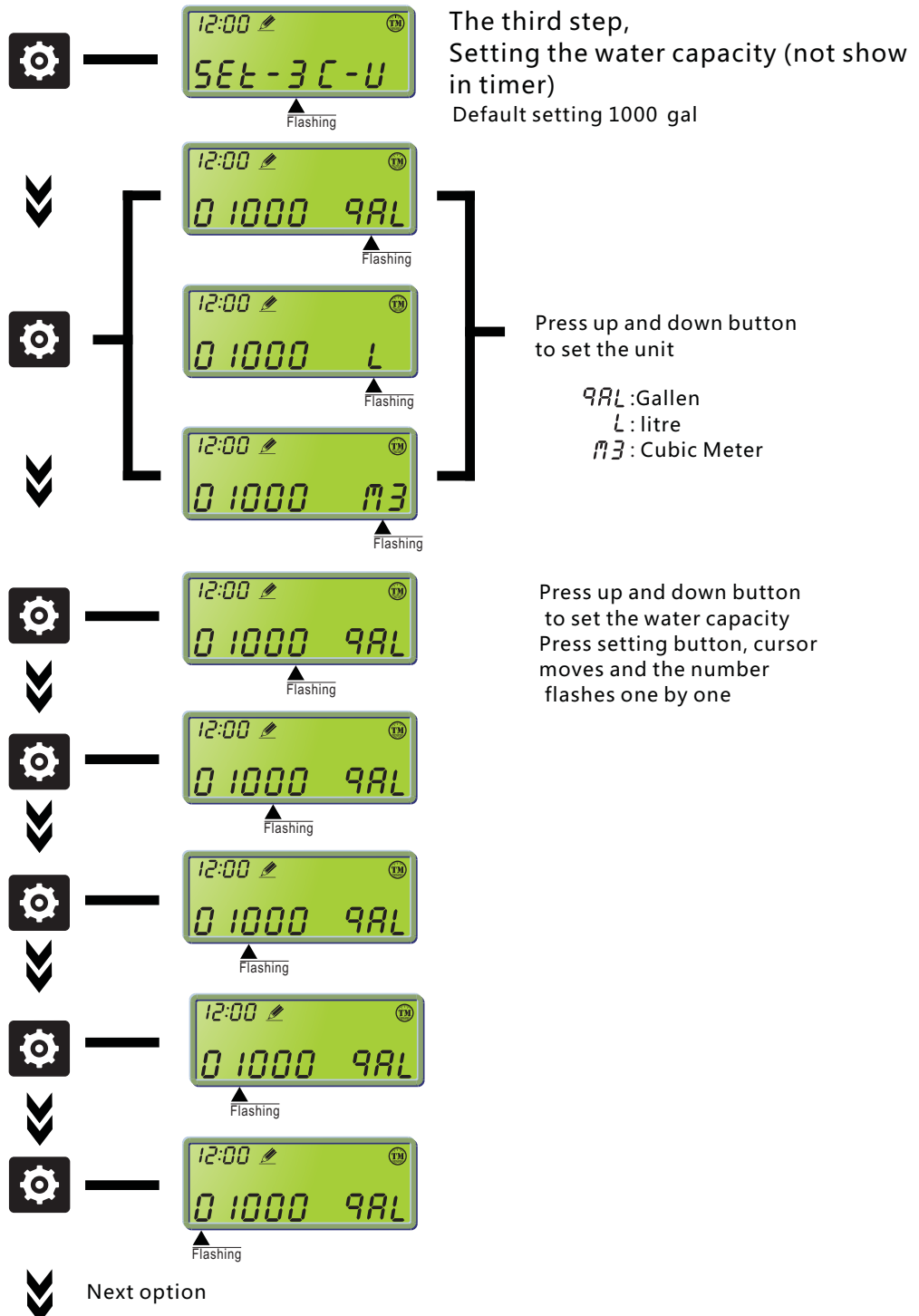
Press up and down button to change mode

Note:

Valve "MODE" always set prior to "the 4th step." Once change the "MODE" setting, Please review and change the contents inside "the 4th step" accordingly

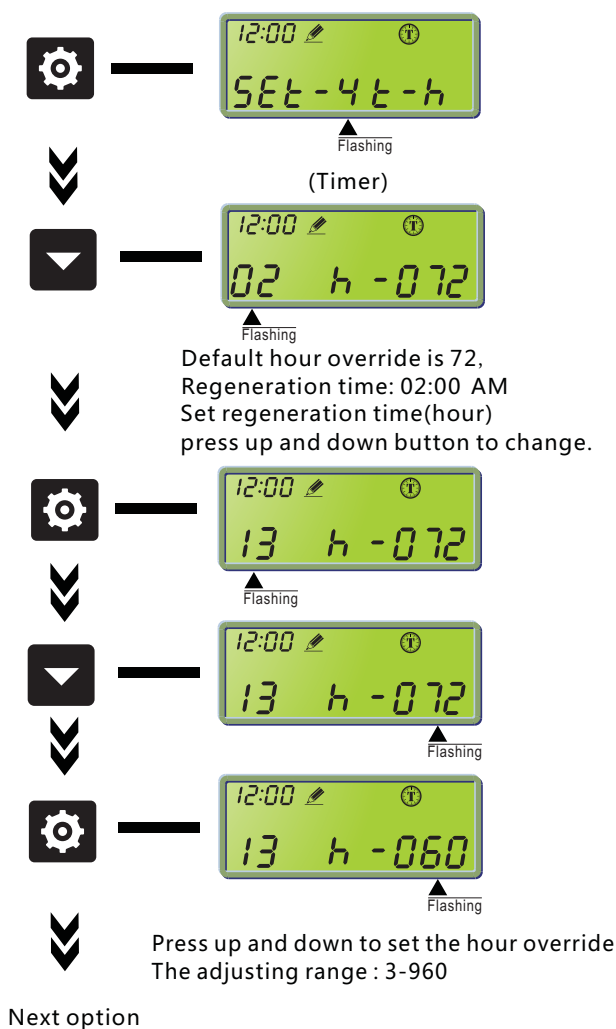
Master Programming

Setting the water capacity



Master Programming

Setting the regeneration time and hour override



The way to adjust the valve of hour override:

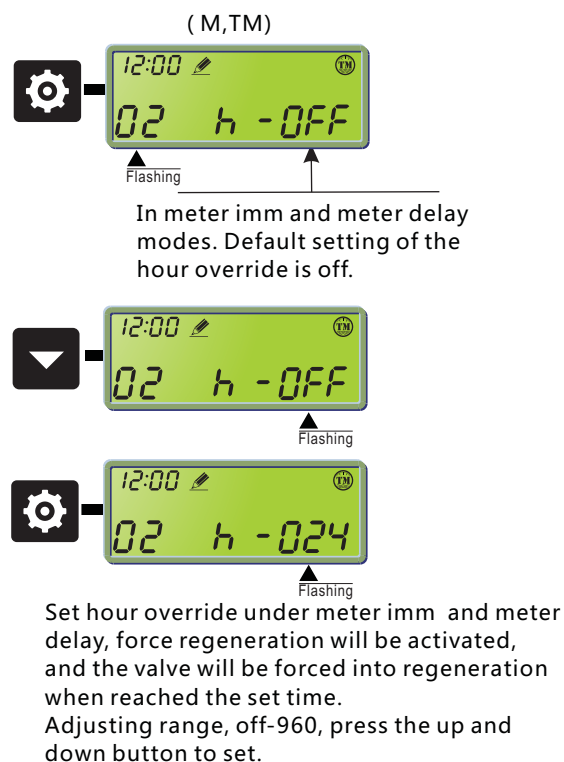
1.Timer

- 1) The valve of hour override should be adjusted as divisible by 24 when it less than 24 hours , such as: 3,4,6,8,12,24.
- 2) The valve of hour override should be adjusted as 12 times when it over 24 hours,such as: 24,36,48,60.

2.Meter

The valve of hour override should be adjusted as 24 times,such as: 24,48,72,96.

The fourth step,
Setting the Regeneration time
and hour override



Mix regeneration:

•under meter imm mode

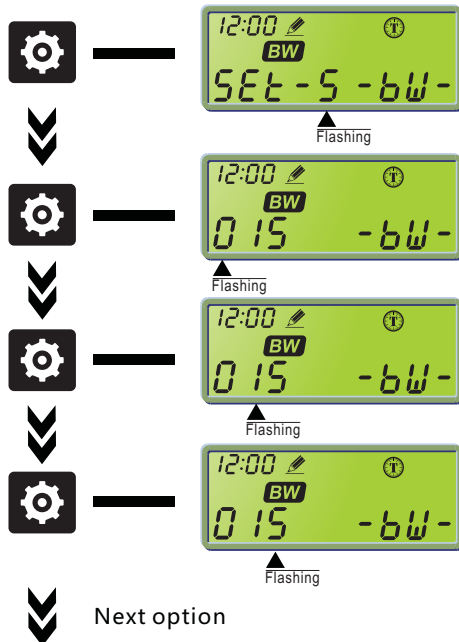
Meter imm and override hour are both function, valve will start to regenerate whenever which reaches first.

•under meter delay mode

Meter delay and override hour are both function, Valve will start to regenerate whenever which reaches first.

Master Programming

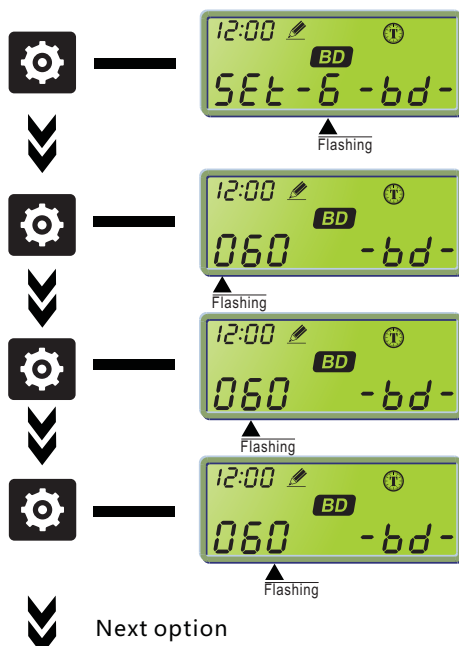
Setting the back wash



The fifth step, setting the back wash time
Default setting 015

Press up and down button to set
the back wash time (minute)
Press the setting button, number
flashes one by one, range 0-999

Setting the brine

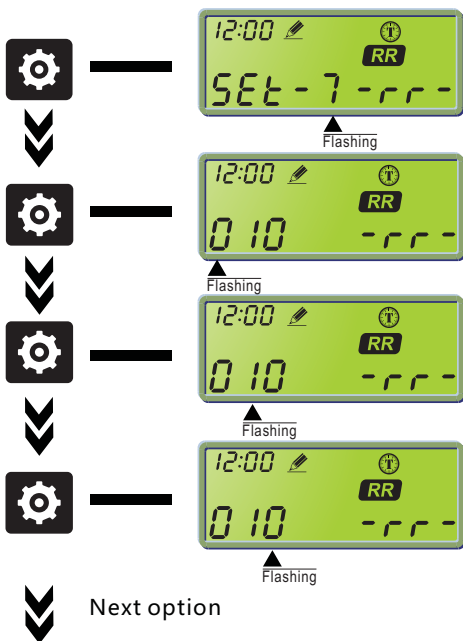


The sixth step, setting the brine time
Default setting 060

Press up and down button to set
the brine time (minute)
Press the setting button, number
flashes one by one, range 0-999

Master Programming

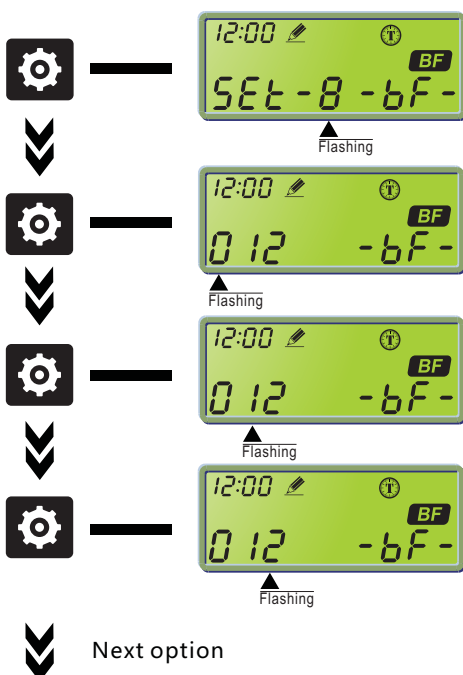
Setting the rapid rinse



The seventh step,
setting the rapid rinse time
Default setting 010

Press up and down button to set the
time of Rapid Rinse (minute)
Press the setting button, number
flashes one by one, range 0-999

Setting the brine tank fill



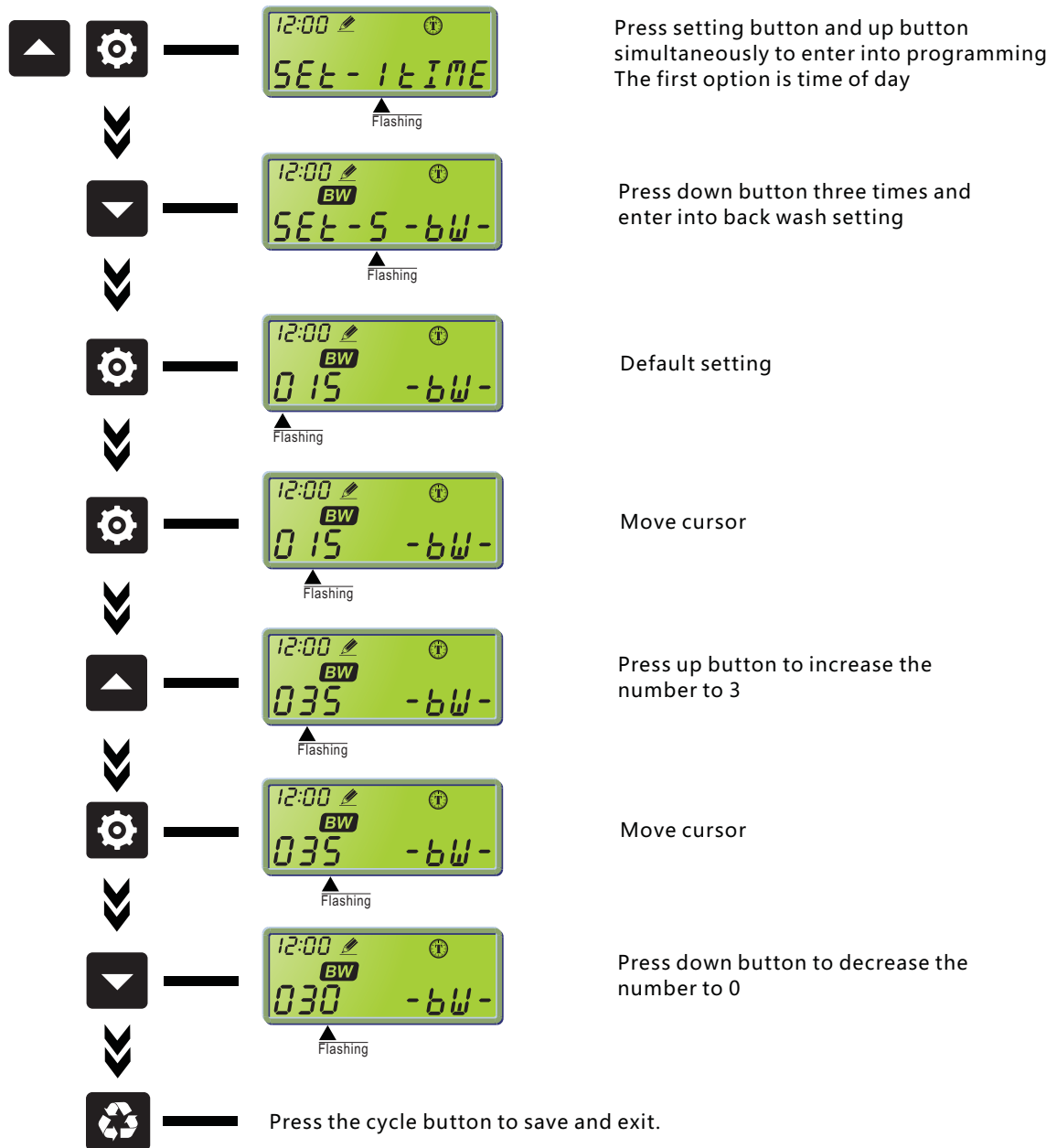
The eighth step,
setting the water filling time
Default setting 012

Press up and down button to set the
time of water filling (minute)
Press the setting button, number
flashes one by one, range 0-999

Master Programming

It's available to modify any single step after whole setting is done. Via enter into the main menu and press up and down button.

For instance: Under timer mode to modify, the fifth step: back wash, 30 minutes



Note:

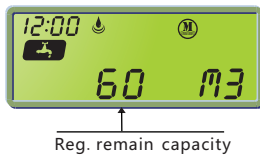
Valve "MODE(the 2nd step)" always set prior to "the 4th step." Once change the "MODE(the 2nd step)" setting, Please review and change the contents inside "the 4th step" accordingly.

Product Features

1. Full & clearly display in the Service position



Timed Regeneration mode
The Display will show the current time, remaining time to the next set regeneration, and the days override.



Meter Immediate Regeneration mode
The Display will show the current time, and the remaining treated water to the next regeneration.



Meter Delay Regeneration mode
The Display will show the current time, and the remaining treated water alternatively. When the remaining treated water countdown to zero, the display changes to the regeneration timeset by the user.

2. Backlight Screen

The backlight goes out if without press any button in one minute, and lightens on by press any button. The edited data won't save if no button pressing for a long time, and the backlight screen will turn off and go back to service position.

3. Memory during power failure

- All program settings are stored in permanent memory. Current valve position, cycle step elapsed, time of day are stored during the power failure. Reset the current time is necessary when power up.
- If the valve stopped at a regeneration stage when power failure, the valve will return to the prior position when power up. It takes 4 to 5 minutes to reset to the position.

the display shows as:



the system will show the status when power failure

after find the position.

Product Features


4. Restore factory settings

Pull out the power —→ press the button  and plug in the power simultaneously —→ release the button .



5. Manual regeneration

• Queueing Regeneration

When the valve is in service position, Press the button  into the "Que.Reg" interface. Queueing Regeneration means the system will initiate a regeneration at the time set . If missed, it will initiate at the same time of the next day.



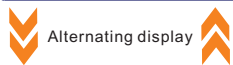
The display shows for the Queued Regeneration in the mode of TIMER.



The display shows for the Queued Regeneration in the mode of METER DELAY.




The display shows for the Queued Regeneration in the mode of METER IMMEDIATE.



The system will initiate a regeneration either the treated water remaining counts down to zero or the remaining time counts down to zero, whichever is first.

Product Features

• Regenerating Immediately

When the valve is in service position, press and hold the button  at least 5 seconds, an immediate regeneration will be initiated.

for example:



"BW" Flashing (ready to "backwash")



When the time counts down to zero or press  .



"BD" Flashing (ready to "brine")

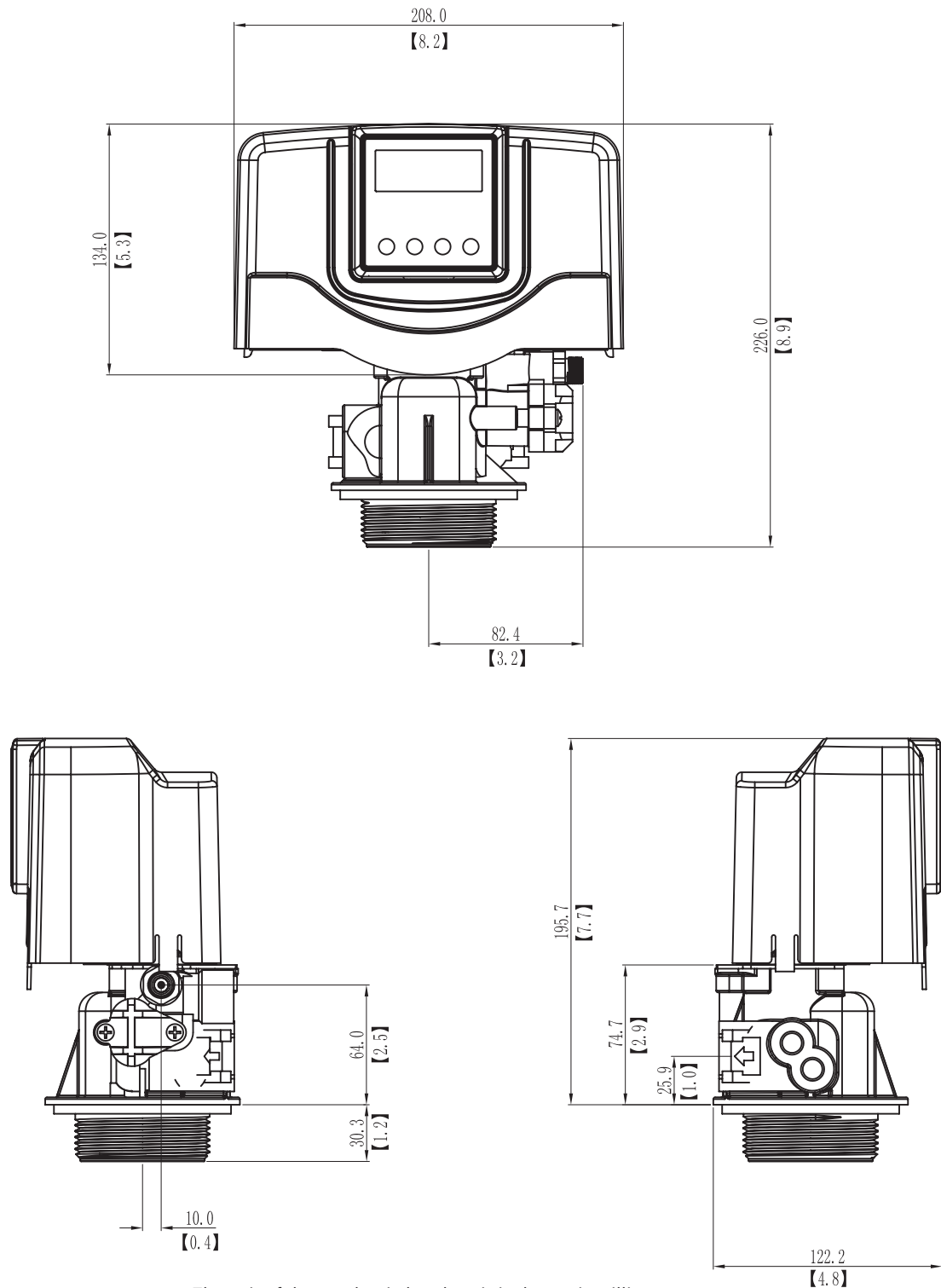
• Stop Regenerating:

When regenerating, Press the button   simultaneously, then stop regenerating the display will return to the service position.

The display shows as:

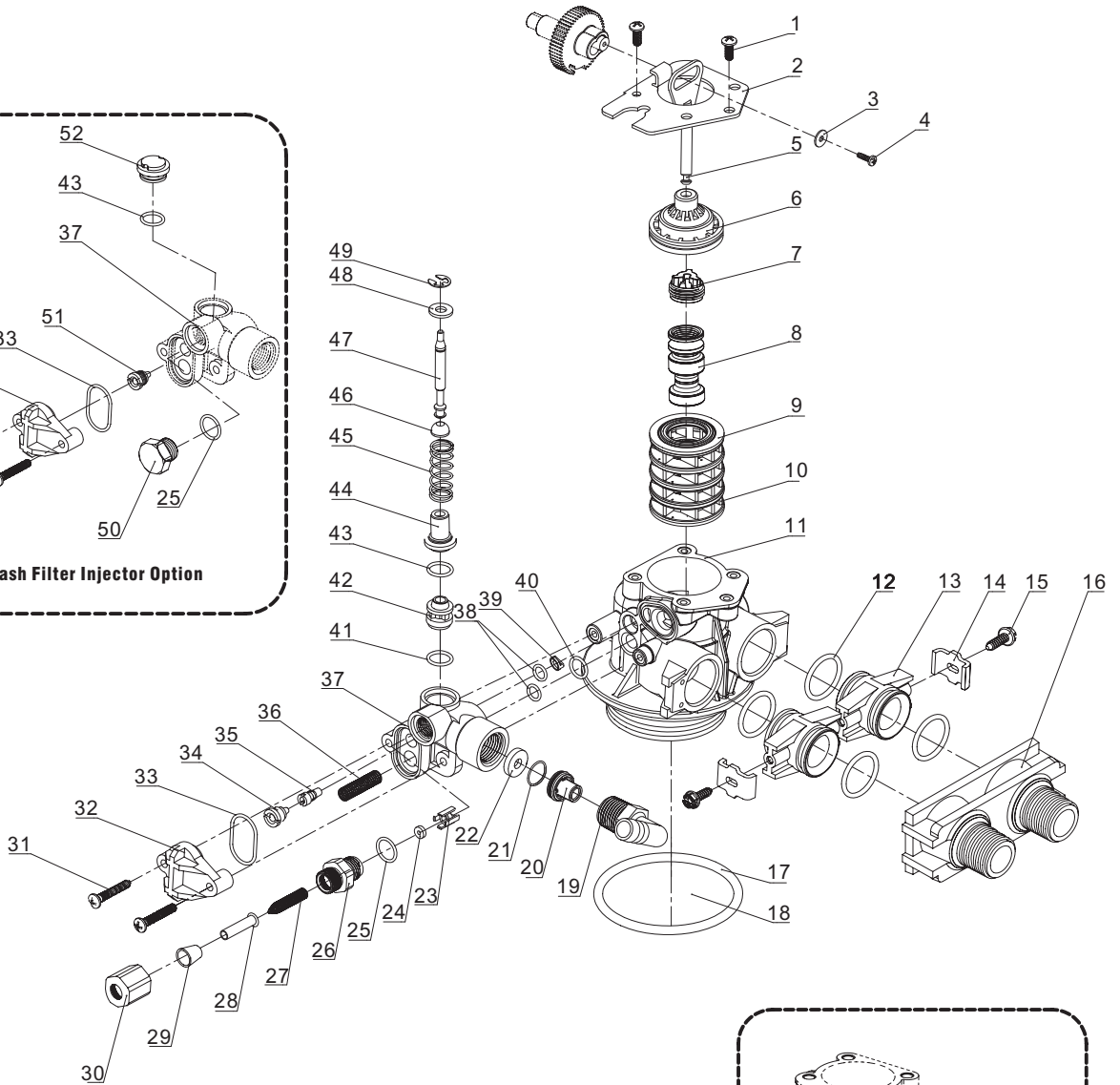


Dimensional Drawing



The unit of the number in brackets is inch, rest is millimeter.

Control Drive Assembly



Backwash Filter Injector Option

Mixing Assembly

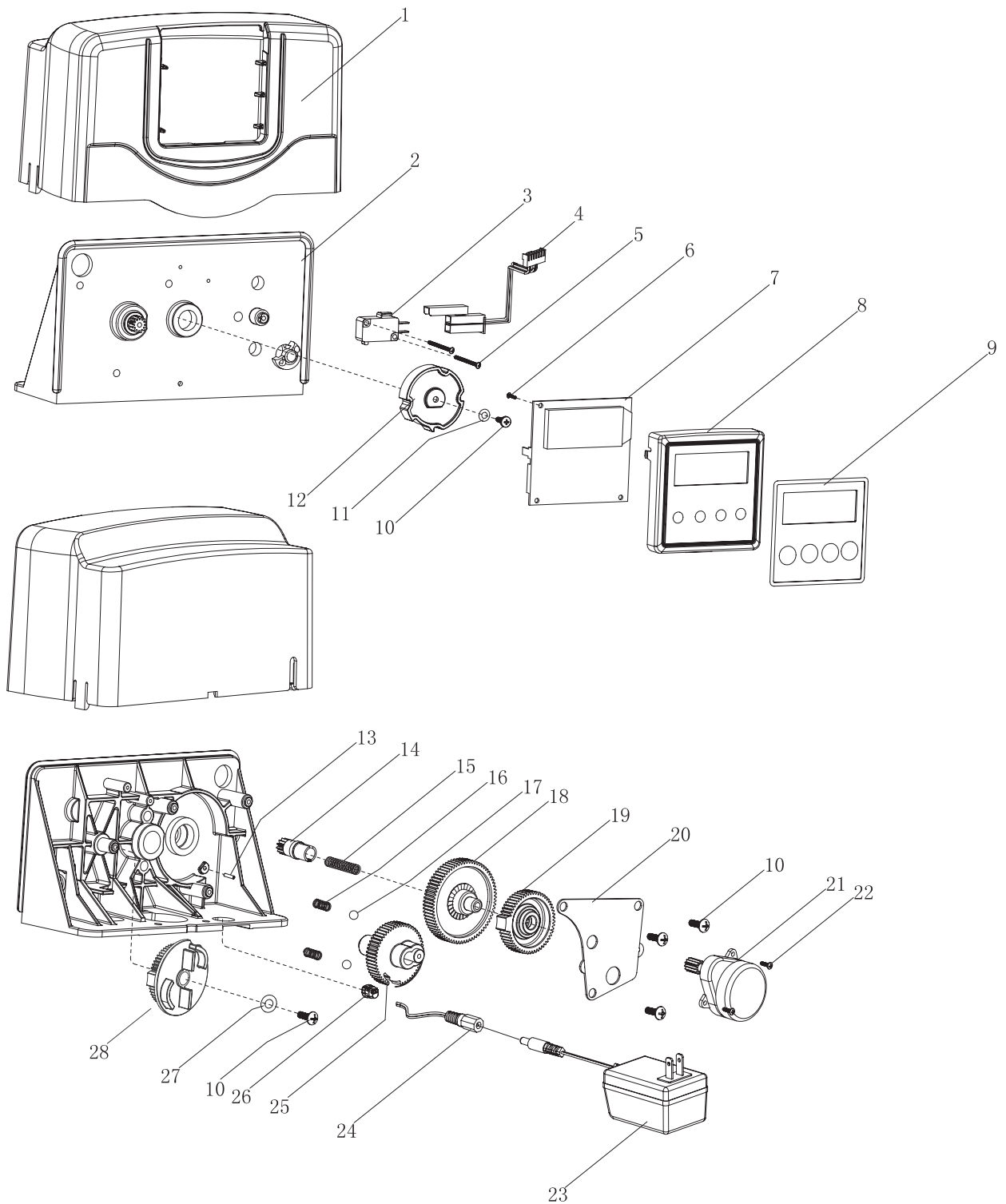
Control Drive Assembly

Item No.	Quantity	Part No.	Description
1	3	02001	Screw
2	1	56050	End Plug Retainer
3	1	04002	Washer
4	1	02106	Screw
5	1	66133	Piston Rod Assembly
6	1	66118	End Plug Assembly
7	1	56115	Piston Retainer
8	1	56076-1	Piston
9	5	56033	Seal
10	4	56004	Spacer
11	1	56001-1	Valve Body Assembly
12	4	01013	O-ring
13	2	56017	Adapter Coupling
14	2-4	56051	Adapter Clip
15	2-4	02105	Screw
✕ 16	1		Yoke, Plastic
17	1	01007	O-ring
18	1	01102	O-ring
19	1	56011	Drine House Barb
20	1	56012	DLFC Button Retainer
21	1	01101	O-ring
✕ 22	1		DLFC Button
23	1	56015	BLFC Button Retainer
✕ 24	1		BLFC Button
25	1	01004	O-ring
26	1	56056	BLFC Fitting
27	1	56060	Screen
28	1	56062	adaptor
29	1	56023	BLFC Ferrule
30	1	56061	Nut
31	2	02003	Screw
32	1	56003	Injector Cover
33	1	01005	O-ring
✕ 34	1		Injector Nozzle
✕ 35	1		Injector Throat
36	1	56059	Screen, Injector
37	1	56002	Injector Body
38	2	01002	O-ring
39	1	56014	Air Disperser
40	1	01006	O-ring
41	1	01105	O-ring
42	1	56010	Spacer
43	1	01003	O-ring
44	1	66119	Brine Valve Cap Assembly
45	1	56058	Spring
46	1	56030	Brine Valve Seat
47	1	56054-1	Brine Valve Stem
48	1	04001	Washer
49	1	04053	Retaining Ring
▲ 50	1	56102	BLFC ,Plug
▲ 51	1	56104	Injector Nozzle-Undrilled
▲ 52	1	56101	Brine Valve, Plug
53	1	66500	Mix Water Valve Assembly

▲ Only for Filter.

✕ More model options.

Powerhead Assembly



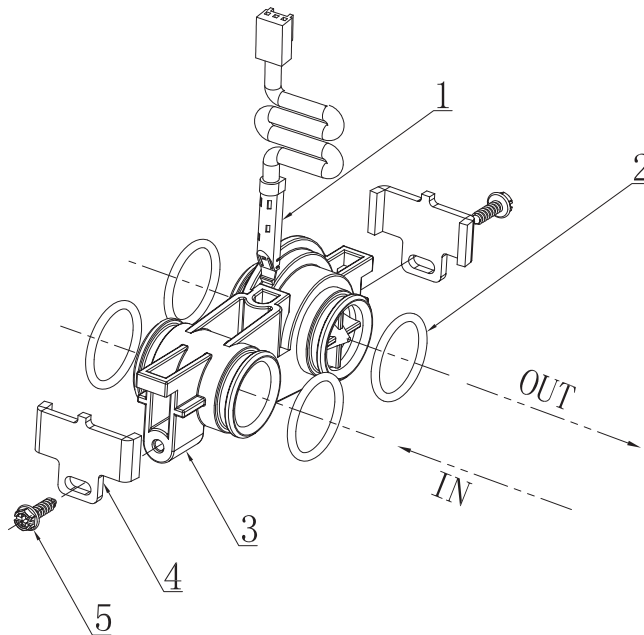
Powerhead Assembly

Item No.	Quantity	Part No.	Description
1	1	56219	Housing
2	1	56214	Bracket
3	1	06003	Switch
4	1	C0002	Wiring Harness
5	2	02054	Screw
6	3	02015	Screw
7	1	07098	Circuit Board
8	1	56220	Panel
9	1	56294	Lable
10	5	02106	Screw
11	1	04002	Seal
12	1	15619	Drive Cam
13	1	00105	Pin
14	1	15612-1	Knob,Manual Regeneration
15	1	13253	Spring Idler
16	2	13252	Spring
17	2	09001	Ball
18	1	13205	Idler Gear
19	1	15617	Drive Gear
20	1	15650	Motor Mounting Plate
✖ 21	1		Motor
22	2	02008	Screw
✖ 23	1		Transformer
24	1	07021	DC Monotrematous Socket
25	1	15601-1	Main Gear
26	1	07019	Strain relief
27	1	04003	Seal
28	1	15621	Brine Valve Gear

✖ More model options.

3/4" Electric Meter Assembly

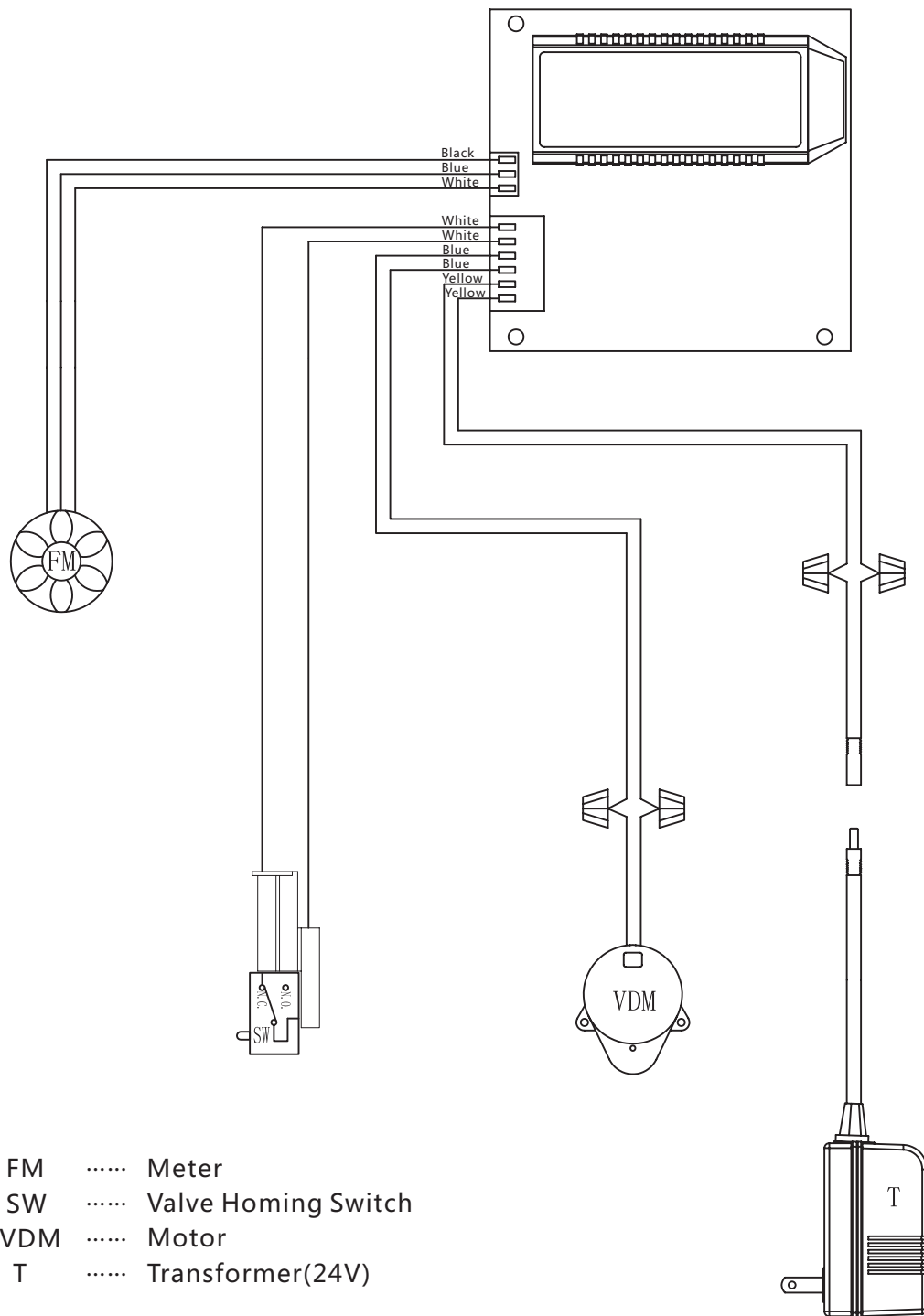
3/4" turbo electric meter assembly



3/4" turbo electric meter assembly parts list

Item No.	Quantity	Part No.	Description
1	1	50022-5	Meter cable assembly
2	4	01013	O-ring
3	1	1220E	Meter body assembly
4	2	50044	Adapter clip
5	2	02105	Screw

Valve Wiring Diagram





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